# **Refine Search**

#### Search Results -

Terms	Documents				
L15 and surface and brak\$	20				

US Pre-Grant Publication Full-Text Database

US Patents Full-Text Database US OCR Full-Text Database

Database:

EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L16 and (first near2 control\$) and (second near2 control\$)

Refine Search

Recall Text 👄

Clear

Interrupt

#### Search History

DATE: Saturday, February 19, 2005 Printable Copy Create Case

Set Name side by side	Query	Hit Count	<u>Set</u> <u>Name</u> result set
DB=l	USPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
<u>L16</u>	L15 and surface and brak\$	20	<u>L16</u>
<u>L15</u>	L14 and l8	21	<u>L15</u>
<u>L14</u>	19 or 110 or 111 or 112 or L13	3023	<u>L14</u>
<u>L13</u>	180/197.ccls.	1226	<u>L13</u>
<u>L12</u>	303/139,163.ccls.	212	<u>L12</u>
<u>L11</u>	73/146.ccls.	983	<u>L11</u>
<u>L10</u>	303/117,152.ccls.	127	<u>L10</u>
<u>L9</u>	701/71-75,80.ccls.	791	<u>L9</u>
<u>L8</u>	L1 and (first near3 control\$) and (second near3 control\$) and (reduc\$ with threshold\$) and (friction\$ near4 coefficient)	74	<u>L8</u>
<u>L7</u>	L3 and (first near3 control\$) and (second near3 control\$)	0	<u>L7</u>
DB=I	PGPB,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR		
<u>L6</u>	L4 and (reduc\$ with threshold\$) and (friction\$ near4 coefficient)	1	<u>L6</u>

<u>L5</u>	L4 and (reduc\$ with threshold\$) and (friction\$ near2 coefficient)	1	<u>L5</u>
<u>L4</u>	L3 and (first near2 control\$) and (second near2 control\$)	119	<u>L4</u>
<u>L3</u>	(antiskid\$ or "anti-skid" with control\$) and @pd<=20021227	6697	<u>L3</u>
DB=B	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;		
OP = OR			
<u>L2</u>	L1	2797	<u>L2</u>
DB = l	USPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
<u>L1</u>	(antiskid\$ or "anti-skid" with control\$) and @ad<=20021227	2797	<u>L1</u>

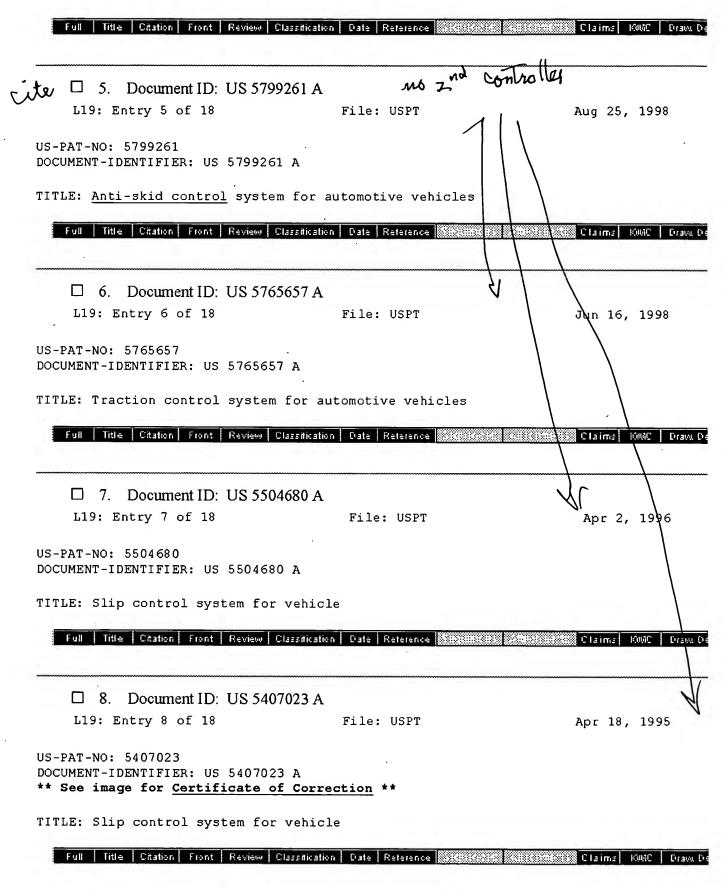
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Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS Search Results - Record(s) 1 through 10 of 18 returned. controlles ☐ 1. Document ID: US 6600987 B2 L19: Entry 1 of 18 File: USPT Jul 29, 2003 US-PAT-NO: 6600987 DOCUMENT-IDENTIFIER: US 6600987 B2 TITLE: Apparatus and method for determining a road-wheel viblation of automotive vehicle, and apparatus and method for anti-skid control using the same Full Title Citation Front Review Classification Date Reference □ 2. Document ID: US 6385524 B2 no 2 L19: Entry 2 of 18 File: USPT May 7, 2002 US-PAT-NO: 6385524 DOCUMENT-IDENTIFIER: US 6385524 B2 TITLE: Automotive brake control system with anti-skid braking device Full Title Citation Front Review Classification Date Reference Claims 1000C Draw, De ☐ 3. Document ID: US 6178370 B1 L19: Entry 3 of 18 File: USPT Jan 23, 2001 US-PAT-NO: 6178370 DOCUMENT-IDENTIFIER: US 6178370 B1 TITLE: Deceleration based antiskid brake contoller with adaptive deceleration threshold ☐ 4. Document ID: US 6026343 A L19: Entry 4 of 18 File: USPT Feb 15, 2000 US-PAT-NO: 6026343 DOCUMENT-IDENTIFIER: US 6026343 A

Record List Display Page 2 of 3

TITLE: Anti-skid control system for automotive vehicles

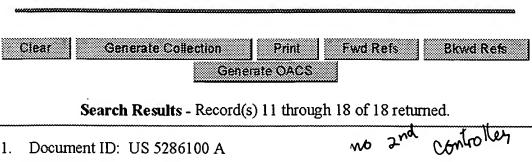


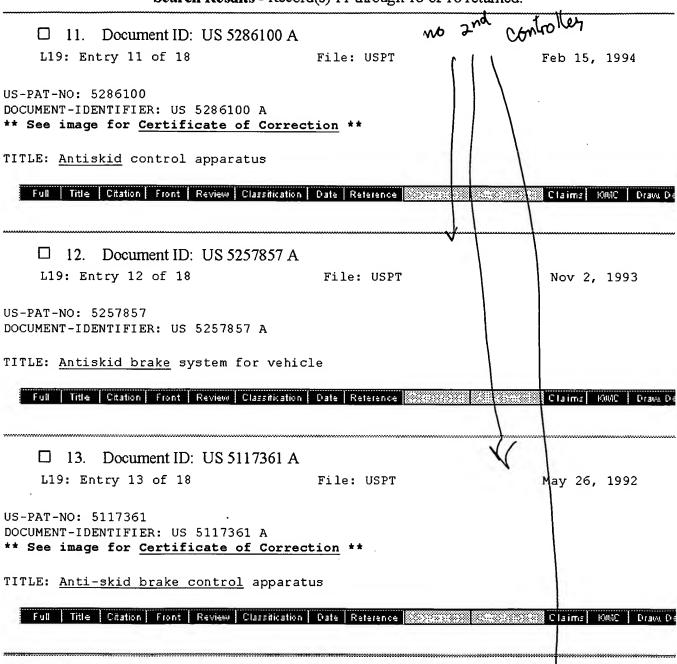
		. <b></b>							
	9. Document ID: US 53 Entry 9 of 18		File:	USPT	<b>w</b> o	2nd		oblet oct 4,	1994
	O: 5351779 -IDENTIFIER: US 53517	779 A							
TITLE: S	lip control system fo	or vehicle							
Full	Title   Citation   Front   Review	Classification	Date R	eterence 🎎				Claima ko	MC Draws De
	10. Document ID: US 5	5320422 A	•••••		***************************************		***************************************	······	
L19:	Entry 10 of 18		File:	USPT			J	Jun 14,	1994
	O: 5320422 -IDENTIFIER: US 53204	122 A				V			
TITLE: S	lip control device fo	or vehicle	wheel						
Full	Title   Citation   Front   Review	Classification	Date R	eterence 🏻				Claims 10	MC   Drawn De
Clear	Generate Collection	Print	Fwc	Refs	Bks	wd Refs		Generate	OACS
	Terms		<del>.</del>			Docu	ments		
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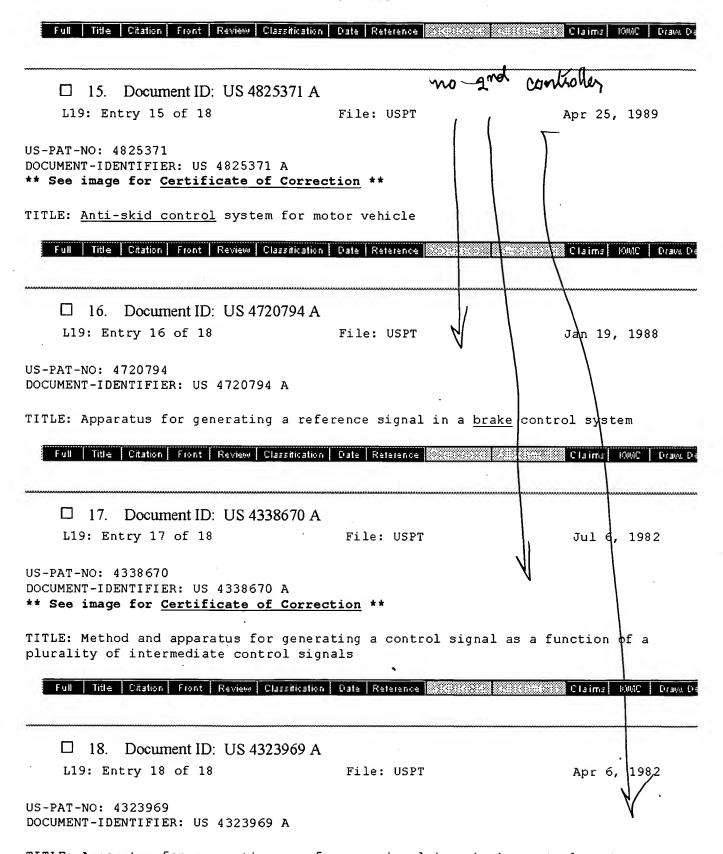


☐ 14. Document ID: US 4900100 A L19: Entry 14 of 18 File: USPT 13, 1990

US-PAT-NO: 4900100

DOCUMENT-IDENTIFIER: US 4900100 A

TITLE: Anti-skid brake control system with capability of eliminating influence of noise in derivation of wheel acceleration data



TITLE: Apparatus for generating a reference signal in a <u>brake</u> control system

Title Citation	Front	Review	Classification	Date	Reference	888583			Cla		OMC	Draw. D
	***************************************			••••••		·····				•••••		
Genera	ite Col	ection	Print	F	wd Refs		3kwd R	efs	Ge	nerate	OA	CS
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Terms							Do	cume	nts			
L16 and (su	urfac\$	with fri	ction\$)						<u>.</u>	18		
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# **Hit List**

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#### **Search Results** - Record(s) 1 through 10 of 20 returned.

☐ 1. Document ID: US 6684147 B2

L16: Entry 1 of 20

File: USPT

Jan 27, 2004

US-PAT-NO: 6684/147

DOCUMENT-IDENT&FIER: US 6684147 B2

\*\* See image for Certificate of Correction \*\*

TITLE: Sliding integral proportional (SIP) controller for aircraft skid control

Full | Title | Citation | Front | Review | Classification | Date | Reference | Moderation | March | March | March | Draw, Da ☐ 2. Document ID: US 6600987 B2

L16: Entry 2 of 20

File: USPT

Jul 29, 2003

US-PAT-NO: 6600987

DOCUMENT-IDENTIFIER: US 6600987 B2

TITLE: Apparatus and method for determining a road-wheel vibration of automotive

vehicle, and apparatus and method for anti-skid control using the same

Full Title Citation Front Review Classification Date Reference (1997) 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 19 ☐ 3. Document ID: US 6385524 B2

L16: Entry 3 of 20

File: USPT

May 7, 2002

US-PAT-NO: 6385524

DOCUMENT-IDENTIFIER: US 6385524 B2

TITLE: Automotive brake control system with anti-skid braking device

☐ 4. Document ID: US 6178370 B1

L16: Entry 4 of 20

File: USPT

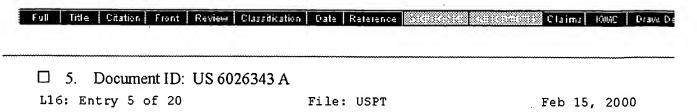
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US-PAT-NO: 6178370

DOCUMENT-IDENTIFIER: US 6178370 B1

Record List Display Page 2 of 3

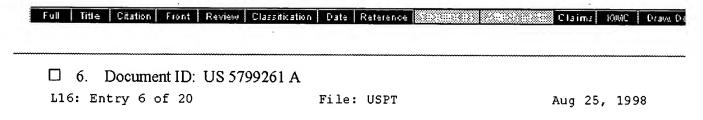
TITLE: Deceleration based <u>antiskid brake</u> contoller with adaptive deceleration threshold



US-PAT-NO: 6026343

DOCUMENT-IDENTIFIER: US 6026343 A

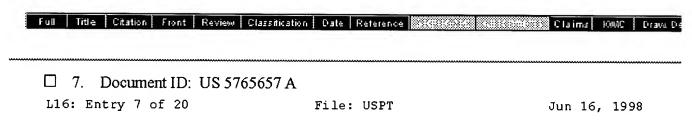
TITLE: Anti-skid control system for automotive vehicles



US-PAT-NO: 5799261

DOCUMENT-IDENTIFIER: US 5799261 A

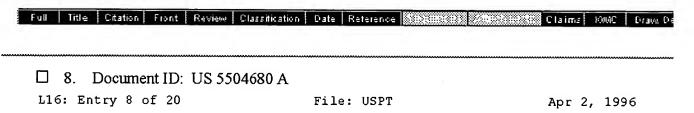
TITLE: Anti-skid control system for automotive vehicles



US-PAT-NO: 5765657

DOCUMENT-IDENTIFIER: US 5765657 A

TITLE: Traction control system for automotive vehicles



US-PAT-NO: 5504680

DOCUMENT-IDENTIFIER: US 5504680 A

TITLE: Slip control system for vehicle



☐ 9. Document ID: US 5407023 A

L16: Entry 9 of 20

File: USPT

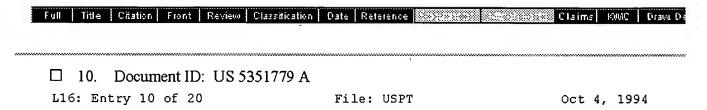
Apr 18, 1995

US-PAT-NO: 5407023

DOCUMENT-IDENTIFIER: US 5407023 A

\*\* See image for Certificate of Correction \*\*

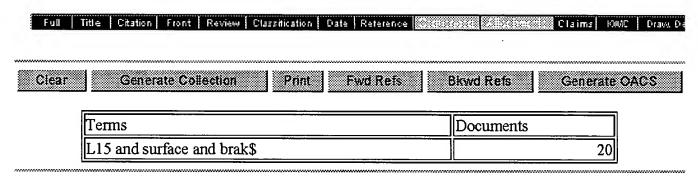
TITLE: Slip control system for vehicle



US-PAT-NO: 5351779

DOCUMENT-IDENTIFIER: US 5351779 A

TITLE: Slip control system for vehicle



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Record List Display Page 1 of 3

# **Hit List**

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Generate OACS

**Search Results** - Record(s) 11 through 20 of 20 returned.

☐ 11. Document ID: US 5320422 A

L16: Entry 11 of 20

File: USPT

Jun 14, 1994

US-PAT-NO: 5320422

DOCUMENT-IDENTIFIER: US 5320422 A

TITLE: Slip control device for vehicle wheel

Full Title Citation Front Review Classification Date Reference SESSIFFESS Claims KIMC Draw, De

☐ 12. Document ID: US 5286100 A

L16: Entry 12 of 20

File: USPT

Feb 15, 1994

US-PAT-NO: 5286100

DOCUMENT-IDENTIFIER: US 5286100 A

\*\* See image for Certificate of Correction \*\*

TITLE: Antiskid control apparatus

Full | Title | Citation | Front | Review | Classification | Cate | Reference | Section | Section | Cate | Reference | Classification | Cate |

US-PAT-NO: 5257857

DOCUMENT-IDENTIFIER: US 5257857 A

TITLE: Antiskid brake system for vehicle

Full | Title | Citation | Front | Review | Classification | Date | Reference | Society | Society | Society | Claims | KMC | Draw, De

☐ 14. Document ID: US 5117934 A

L16: Entry 14 of 20

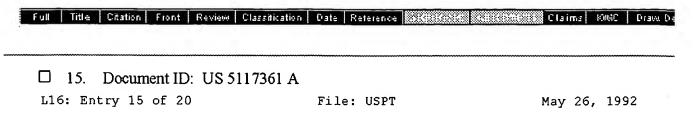
File: USPT

Jun 2, 1992

US-PAT-NO: 5117934

DOCUMENT-IDENTIFIER: US 5117934 A

TITLE: Slip control system for vehicle and rough road detecting system

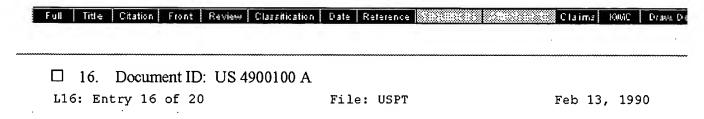


US-PAT-NO: 5117361

DOCUMENT-IDENTIFIER: US 5117361 A

\*\* See image for Certificate of Correction \*\*

TITLE: Anti-skid brake control apparatus



US-PAT-NO: 4900100

DOCUMENT-IDENTIFIER: US 4900100 A

TITLE: Anti-skid brake control system with capability of eliminating influence of noise in derivation of wheel acceleration data

L16: Entry 17 of 20

File: USPT

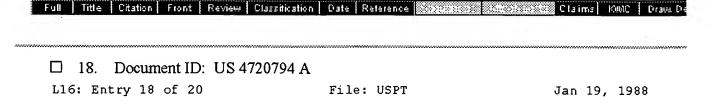
Apr 25, 1989

US-PAT-NO: 4825371

DOCUMENT-IDENTIFIER: US 4825371 A

\*\* See image for Certificate of Correction \*\*

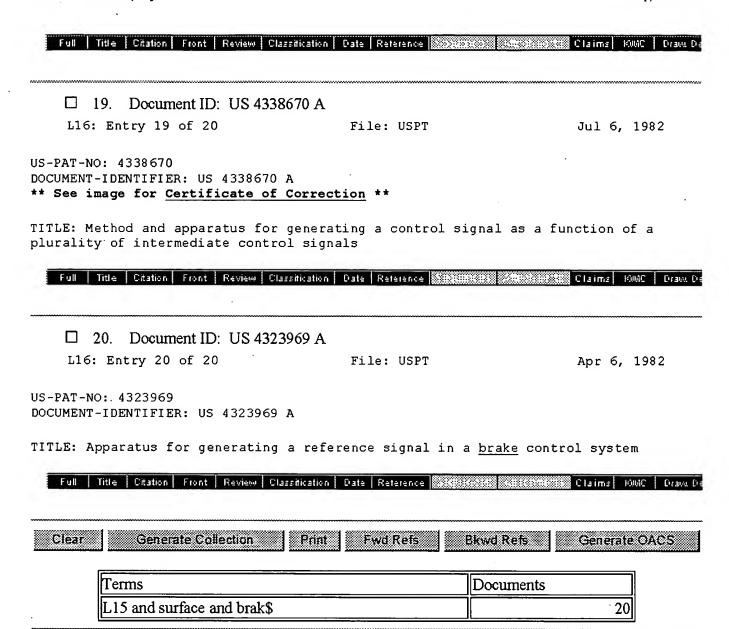
TITLE: Anti-skid control system for motor vehicle



US-PAT-NO: 4720794

DOCUMENT-IDENTIFIER: US 4720794 A

TITLE: Apparatus for generating a reference signal in a brake control system



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First Hit

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**End of Result Set** 

☐ Generate Collection Print

L5: Entry 1 of 1

File: PGPB

Jan 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020002435

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020002435 A1

TITLE: Apparatus and method for determining a road wheel vibration of automotive vehicle, and apparatus and method for <a href="mailto:anti-skid\_control">anti-skid\_control</a> using the same

PUBLICATION-DATE: January 3, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Ohtsu, Nobuyuki Kanagawa JP

ASSIGNEE-INFORMATION:

NAME CITY STATE COUNTRY TYPE CODE

UNISIA JECS CORPORATION 03

APPL-NO: 09/ 885109 [PALM]
DATE FILED: June 21, 2001

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY APPL-NO DOC-ID APPL-DATE

JP 2000-196390 2000JP-2000-196390 June 29, 2000

INT-CL: [07] <u>B60</u> <u>T</u> <u>8/58</u>

US-CL-PUBLISHED: 701/71; 701/80 US-CL-CURRENT: 701/71; 701/80

REPRESENTATIVE-FIGURES: 1

#### ABSTRACT:

An apparatus for determining a road-wheel vibration for an automotive vehicle comprises wheel-speed sensors for detecting wheel speeds of each of road wheels, and a control unit which is configured to be electrically connected to the wheel-speed sensors for processing a wheel-speed data signal detected from each of the wheel-speed sensors. The control unit comprises a wheel acceleration calculating section for calculating a wheel acceleration and a wheel deceleration of each of the road wheels based on the wheel-speed data signal, a wheel acceleration cycle calculating section for calculating a wheel acceleration cycle of each of the road wheels, a vehicle deceleration calculating section for calculating a vehicle deceleration, a vibration detecting section for detecting a road-wheel vibration of the road wheel based on at least the wheel acceleration cycle, and a vibration